



Mounted High-Speed PIN Photodiodes

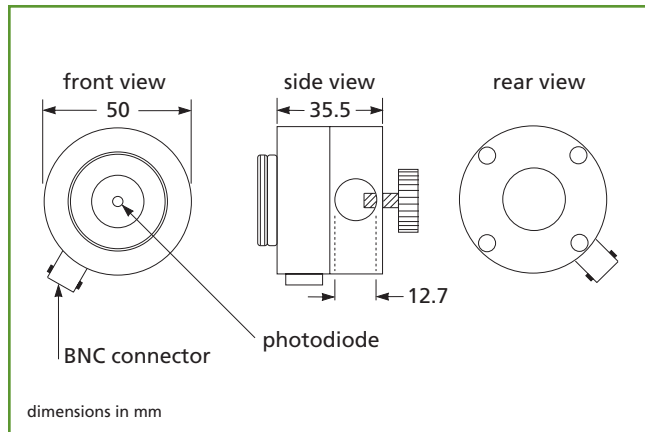
CVI Melles Griot silicon PIN photodiodes are ideal for low-intensity high-bandwidth applications such as fiber-optic communications and data links, video systems, and industrial sensing.

- Excellent high-frequency response produces rise times as fast as 0.35 nsec with an appropriate transimpedance amplifier.
- Post-mountable, these photodiodes interface directly with CVI Melles Griot snap-on filter mounts.
- Internal batteries eliminate the need for an external power supply.

SPECIFICATIONS:

Mounted High-Speed PIN Photodiodes

Spectral Response	350–1100 nm
Bias	– 9 Vdc
Battery Type	Three 3-Vdc lithium batteries (included); 9 Vdc total
Termination	50 Ω
Operating Temperature	– 10°C to + 50°C
Storage Temperature	– 35°C to + 75°C



13 DAH-series mounted high-speed PIN photodiodes

Mounted High-Speed PIN Photodiodes^{1,2}

Photodiode Diameter (mm)	Rise Time at – 9 Vdc (nsec)	NEP ³ at – 9 Vdc (W/Hz ^{1/2})	Dark Current at – 9 Vdc (nA)	Capacitance at – 9 Vdc (pF)	Breakdown Voltage (min) at 10 μ A (V)	Response at 830 nm (A/W)	Package Diameter	PART NUMBER
0.23	0.35–1.00 max	6.3×10^{15}	0.02–1.00 max	1.0	30	0.35–0.40 max	50 mm	13 DAH 001
0.50	1.00–2.00 max	9.0×10^{15}	0.05–1.00 max	2.5	30	0.35–0.40 max	50 mm	13 DAH 003
1.00	2.50–3.50 max	2.2×10^{14}	0.25–1.00 max	5.5	30	0.35–0.40 max	50 mm	13 DAH 005

¹ All specifications listed for an ambient temperature of 22°C.

² A 50- Ω termination is required for mounted 13 DAH series.

³ Noise equivalent power.